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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,264	07/05/2006	Xianyi Chen	CU-4908 RJS	2404

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FutureWei Technologies, Inc.
IPR & Standards Department
1700 Alma Drive, Suite 500
Plano, TX 75075

EXAMINER

CALLAHAN, PAUL E

ART UNIT	PAPER NUMBER
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2437

NOTIFICATION DATE	DELIVERY MODE
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05/11/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patents.futurewei@huawei.com
fwashington@huawei.com

Office Action Summary	Application No. 10/585,264	Applicant(s) CHEN ET AL.	
	Examiner PAUL CALLAHAN	Art Unit 2437	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 January 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is directed towards the Applicant's response filed 1-28-2010. Claims 1 and 3-13 are pending and have been examined.

Response to Arguments

2. Applicant's arguments with respect to claims 1 and 3-13 have been considered but are moot in view of the new ground(s) of rejection.
3. The indicated allowability of claims 10-13 is withdrawn. Rejections based on the newly cited reference: Piche et al., US 7,602,784 follow.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 6-8 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marples et al., US 2003/0140142, and Piche et al., US 7,602,784.

As for claim 1, Marples teaches a network security system (abstract), comprising a firewall arranged between an internal network and an external network (fig. 2,

Art Unit: 2437

element 222, [0014]), said firewall comprises a first port configured at the internal network oriented side of the firewall and a second port configured at the external network oriented side of the firewall (fig. 2 element 222, [0014]); wherein the network security system further comprises a trusted node arranged between the firewall and the external network (fig. 2 element 200, [0014], [0015]: "...route the communications over the hub and trough the firewall) which is used to provide a data channel between the internal network and external network ([0014], [0015]), and forward the data transported between the internal network and external network ([0014], [0015]), and wherein the trusted node further comprises a data forward unit, which is used to forward the data transported between the internal network and the external network ([0017]), and a control unit, which is used to control the operations of all the other units ([0014], [0015], [0017]). Marples does not teach the trusted node as comprising a media-stream receiving port used to converge the data from the second port. Marples also does not teach a trusted node further comprising a signaling channel selection unit, which is used to select a signaling transmission channel for transmitting the data so as to implement the convergence of signaling, and a call channel selection unit, which is used to select a media-stream receiving port in the trusted node for communicating with the internal network. However, Piche does teach these features. Piche teaches the use of such a first and second port for streaming media applications (col. 3 lines 15-20: streaming media is sent, col. 3 line 44 through col. 4 line 26: a method for port selection is taught useable with many to one streaming media transmissions). Piche teaches a signaling channel selection unit which is used to select

Art Unit: 2437

a signaling transmission channel for transmitting the data so as to implement the convergence of signaling (col. 6 lines 52-65), and a call channel selection unit, which is used to select a media-stream receiving port in the trusted node for communicating with the internal network (col. 6 lines 52-65 and 66-67). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate these features into the system of Marples. It would have been obvious to do so since this would allow for more rapid transmission of streaming media from an external network to the internal network of Marples, and increase the utility of the system of Marples by extending its use to commonly utilized network media delivery formats.

As for claim 6, this claim is directed towards the method that is carried out by the system of claim 1. Claim 6 recites substantially the same limitations as claim 1 and is therefore rejected on the same basis as that claim.

As per claim 7, Marples teaches the network security method according to claim 6, but not explicitly further wherein the Step B comprises the following: B1, Open Logical Channel signaling being transmitted by the internal network to the trusted node; B2, the trusted node informing the internal network of the selected media-stream receiving port; B3, the trusted node transmitting Open Logical Channel signaling to the external network to establish a corresponding channel. However, Piche does teach these steps (col. 3 line 44 through col. 4 line 25). Therefore it would have been

Art Unit: 2437

obvious to one of ordinary skill in the art at the time the invention was made to incorporate this feature into the system of Marples. It would have been obvious to do so since this would increase the utility of the system of Marples by extending its use to commonly utilized firewall port discovery protocols.

As for claim 8, Marples teaches the network security method according to claim 6, but not explicitly further wherein the Step C comprises the following: C1, the selected media-stream receiving port of the trusted node receiving all the data from the internal network and forwarding the data to the external network; C2, the selected media-stream receiving port of the trusted node forwarding the data transmitted by the external network to the internal network. However, Piche does teach these steps (col. 3 line 44 through col. 4 line 25). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate this feature into the system of Marples. It would have been obvious to do so since this would increase the utility of the system of Marples by extending its use to commonly utilized data packet transmission protocols.

As for claims 10-12, Marples fails to explicitly teach the feature of implementing load balance among a plurality of trusted nodes when the data are forwarded. However Piche does teach this feature (col. 4 lines 23-26 and 55-58: many to one transmission to, and reception at, a port on a client computer inherently utilizes load balancing). Therefore, it would have been obvious to one of ordinary skill in the art at the time the

Art Unit: 2437

invention was made to incorporate this feature into the system of Marples. It would have been desirable to do so since load balancing would allow for more efficient transmission of streaming media from an external network to the internal network of Marples, and hence increase the utility of his system.

6. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marples and Piche as applied to claim 1 supra, and further in view of Bush et al., US 2009/0019141 A1.

As for claims 3 and 4, the combination of Marples and Piche teaches the network security system according to claim 1, but not explicitly further wherein the trusted node is designed to support the H.323 protocol. However, Bush does teach such a trusted node (gateway) utilizing the H.323 protocol. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate this feature into the system of Marples and Piche. It would have been obvious to do so since this would increase the utility of the system of Marples and Piche by extending its use to commonly utilized network media delivery formats.

7. Claims 5, 9 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marples and Piche as applied to claims 1 and 6 supra, and further in view of Freebairn et al., US 2007/0067487 A1.

As for claims 5 and 9, the combination of Marples and Piche teaches the network security system according to claims 1 and 6, but not explicitly further wherein the signaling channel selection unit adopts Q931 channel for transmitting signaling. However, Freebairn does teach such a trusted node utilizing the Q931 protocol. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate this feature into the system of Marples and Piche. It would have been obvious to do so since this would increase the utility of the system of Marples and Piche by extending its use to commonly utilized signaling channel protocol.

As for claim 13, Marples fails to explicitly teach the feature of implementing load balance among a plurality of trusted nodes when the data are forwarded. However Piche does teach this feature (col. 4 lines 23-26 and 55-58: many to one transmission to, and reception at, a port on a client computer inherently utilizes load balancing). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate this feature into the system of Marples. It would have been desirable to do so since load balancing would allow for more efficient transmission of streaming media from an external network to the internal network of Marples, and hence increase the utility of his system.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul E. Callahan whose telephone number is (571) 272-3869. The examiner can normally be reached on M-F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Emmanuel Moise, can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is: (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/PEC/
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/Emmanuel L. Moise/
Supervisory Patent Examiner, Art Unit 2437